

A B S T R A C T

A METHOD OF REDUCING INTERFERENCE BETWEEN USERS AND USE
OF THE METHOD IN A RADIO ACCESS NETWORK

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In a network of fixed radio links, base transceiver stations radiate omnidirectionally or sectorially. User terminals are provided with directional antennas oriented towards the base transceiver stations. The CDMA mode is one mode of coding symbols to be transmitted before modulation by a carrier. Some user terminals are situated in disadvantaged areas of the network, where they receive unwanted transmissions from other base transceiver stations aligned with their pointing direction. To prevent the harmful effects of such unwanted transmissions, the signals intended for those user terminals are coded with double length coding sequences. It is shown that this redundancy improves transmission quality by up to 3 dB. Quality is further improved by further increasing the length of the sequences.

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Translation of the title and the abstract as they were when originally filed by the Applicant. No account has been taken of any changes that may have been made subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2, 38.2, and/or 48.3.

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